

BERNARD MALFROY-CAMINE
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PATENT

attaching a lipid substituent to the protein by a covalent linkage of at least one lipoamine residue to a carbohydrate side chain to produce a lipidized protein; and recovering the lipidized protein;

wherein:

the lipidized protein is capable of transvascular transport, enhanced organ uptake and intracellular localization.

9. (Twice amended) A method for targeting an intracellular protein for binding with an antibody in a cell, comprising contacting the cell with a lipidized antibody which binds specifically with the intracellular protein, wherein said lipidized antibody is an antibody covalently linked to a lipid through a carbohydrate moiety and wherein said lipidized antibody is capable of transvascular transport, enhanced organ uptake and and [or] intracellular localization.

14. (Twice amended) A composition comprising a therapeutically effective dosage of a lipidized protein and a pharmaceutically acceptable carrier, wherein said lipidized protein is a protein covalently linked to a lipid through a carbohydrate moiety and wherein said lipidized protein is capable of transvascular transport, enhanced organ uptake and and [or] intracellular localization.

19. (Twice amended) A composition comprising a lipidized antibody and a pharmaceutically acceptable carrier, wherein a lipid substituent is covalently linked to the antibody by a covalent linkage of at least one lipoamine residue to a carbohydrate side chain to produce said lipidized antibody and wherein said lipidized antibody is capable of transvascular transport, enhanced organ uptake and and [or] intracellular localization.

20. (Twice amended) A lipidized antibody, wherein said lipidized antibody is linked to a label selected from the group consisting of radionuclides, enzymes, enzymes substrates, enzyme inhibitors, ligands, radiocontrast agents and metal chelates, wherein a lipid substituent is covalently linked to the antibody by a covalent linkage of at least one lipoamine residue to a carbohydrate moiety [side chain] to produce said lipidized antibody and wherein